

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONED FOR PATENTS P.O. Box 1450 Alexandria, Virginia 27313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/643,629	08/18/2003	Wei Li	50277-2248	4456	
42425	7590 09/29/2006		EXAMINER		
HICKMAN PALERMO TRUONG & BECKER/ORACLE			ALI, MOH	ALI, MOHAMMAD	
2055 GATE SUITE 550	2055 GATEWAY PLACE SUITE 550		ART UNIT	PAPER NUMBER	
SAN JOSE,	CA 95110-1089		2166		
			DATE MAILED: 09/29/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/643,629	LI ET AL.	
Office Action Summary		Examiner	Art Unit	
		Mohammad Ali	2166	
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with th	e correspondence address	
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING DISTRICT STATES AND THE MAILING DEPLY WITH THE MAILING DEPLY WITH THE MAILING THE MAIL	DATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS for e, cause the application to become ABANDO	ON. timely filed momentum the mailing date of this communication. NED (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on <u>07 J</u> This action is FINAL . 2b) This Since this application is in condition for allowa closed in accordance with the practice under the	s action is non-final. Ince except for formal matters,		
Dispositi	on of Claims			
5) 6) 7)	Claim(s) <u>21-40</u> is/are pending in the application 4a) Of the above claim(s) <u>1-20</u> is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>21-40</u> are subject to restriction and/o	n from consideration.		
Applicati	on Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example.	cepted or b) objected to by the drawing(s) be held in abeyance.	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority u	nder 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.				
Attachment	(s) e of References Cited (PTO-892)	4) 🔲 Interview Summ	ary (PTO-413)	
2) Notice 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mai 5) Notice of Informa 6) Other:	Date	

Application/Control Number: 10/643,629

Art Unit: 2166

DETAILED ACTION

1. Claims 21-40 are pending in this Office Action.

Election/Restrictions

2. Restriction to one of the following inventions is required under 35 U.S.C.

121:

- Claims 21-34 are drawn to grouping the candidate combinations into clusters, classified in class 707, subclass 6.
- II. Claims 35-40 are drawn to using an index on non-volatile memory to store a set of bitmaps that are generated during the phase, classified in class 707, subclass 2.

The inventions are distinct, each from the other because of the following reasons: Inventions in Groups I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention in Group I has separate utility such as grouping the candidate combinations into clusters. See MPEP § 806.05(d). Invention in Group II has separate utility such as using an index on non-volatile memory to store a set of bitmaps that are generated during the phase.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purpose as indicated is proper.

Application/Control Number: 10/643,629

Art Unit: 2166

Applicants are advised that the reply to this requirement to be complete must include and election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors in no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Response time for this office action is one month (30 days).

Application/Control Number: 10/643,629

Art Unit: 2166

Contact Information

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mohammad Ali whose telephone number is (571) 272-

4105. The examiner can normally be reached on Monday-Thursday (7:30 am-6:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain T. Alam can be reached on (571) 272-3978. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mohammad Ali

Primary Examiner

Art Unit 2166

MA

September 27, 2006